

BUB/CTE/2015-16/

Date: 03-08-2015

1. TESTING OF FINE AGGREGATES :

Sub: Testing of Fine Aggregates.

{Project*: Maintenance of Ward and Emergency works in Ward No.11. (Kuvempunagar)}

Ref.: Letter No. Testing/BUB/2015-16, dated 29-07-2015

Sample supplied to lab by: Sri.C.Chethan, Contractor,
Bangalore.

Report required for: Assistant Executive Engineer,
Vidyaranyapura Sub-Division.
BBMP, Bangalore.

TABLE - 1.1 : SIEVE ANALYSIS :

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2007)			Remarks
		Percentage Passing			
		Zone-I	Zone-II	Zone -III	
04.75	98.00	90-100	90-100	90-100	The Sample Conforms to Grading Zone-II
02.36	85.20	60-95	75-100	85-100	
01.18	74.00	30-70	55-90	75-100	
600. mic	42.30	15-34	35-59	60-79	
300.mic	18.60	5-20	8-30	12-40	
150.mic	2.90	0-10	0-10	0-10	

TABLE 1.2 ;

Sl No	Test Conducted	Sample	Results	Requirements as Per IS. Specification IS :383-1970 (Reaffirmed 2007)
1	Silt Content	001	1.45 %	Not more than 8%
2.	Specific Gravity	----	2.59	-----

* As furnished by Client.

The Results relate only to the items tested.

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Date: 03-08-2015

BUB/CTE/2015-16/

1. TESTING OF COARSE AGGREGATES (40 mm):

Sub: Testing of Coarse Aggregates.

{Project*: Maintenance of Ward and Emergency works in Ward No.11. (Kuvempunagar)}

Ref.: Letter No. Testing/BUB/2015-16, dated 29-07-2015

Sample supplied to lab by: Sri.C.Chethan, Contractor,
Bangalore.

Report required for: Assistant Executive Engineer,
Vidyaranyapura Sub-Division.
BBMP, Bangalore.

Table - 1.1 : SIEVE ANALYSIS :

IS Sieve Size, mm	Percentage passing 40 mm Sample	Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing	
		Single size	Graded
40mm	96.80	85-100	95 - 100
20mm	63.00	0 -20	30- 70
10mm	22.00	0 -5	10- 35
4.75mm	Nil	-----	0 - 5

TABLE 12 :

SL No	Test conducted	Sample No	Results	Requirements as per IS:383-1970 & Test Conforms to IS 2386(Part I to IV) – 1963 (Reaffirmed on 2007)
1.	Flakiness Index	As above	15.70 %	Not to exceed 25 %
2.	Crushing value	-----	26.00%	Not to exceed 45 % for concrete other than for wearing surfaces and 30% for concrete for wearing surfaces

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Date: 07-08-2015

BUB/CTE/2014-15/

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).

{Project*: Maintenance of Ward and Emergency works in Ward No.11. (Kuvempunagar)}

Ref.: Letter No. Testing/BUB/2015-16, dated 29-07-2015

Sample supplied to lab by: Sri.C.Chethan, Contractor,
Bangalore.

Report required for: Assistant Executive Engineer,
Vidyaranyapura Sub-Division.
BBMP, Bangalore.

PHYSICAL TESTS ON CEMENT

Brand* : Birla Grade * : 53
Type * : OPC
Date : 30-07-2015 to 06-08-2015

SL No	Name of Test	Results	Requirements as per IS 12269-1987
		Cement Sample	
1	Initial setting time	145 min	Shall not be less than 30 min
2	Final setting time	250min	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	2.60%	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	1.70 mm	Shall not be more than 10 mm
5	Compressive strength	29.10 N/ Sq mm	Shall not be less than 27 N/Sqmm
	a) 3 days (average of three results) b) 7 days (average of three results)	41.20 N/Sq mm	Shall not be less than 37N/Sqmm

* As furnished by Client.

The Results relate only to the items tested.

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BUB/CTE/2015-16/

Date: 03-08-2015

1. TEST REPORT ON REINFORCEMENT STEEL :

Sub: Testing of Reinforcement Steel of diameter 10mm.

{Project*: Maintenance of Ward and Emergency works in Ward No.11. (Kuvempunagar)}

Ref.: Letter No. Testing/BUB/2015-16, dated 29-07-2015

Sample supplied to lab by: Sri.C.Chethan, Contractor,
Bangalore.

Report required for: Assistant Executive Engineer,
Vidyaranyapura Sub-Division.
BBMP, Bangalore.

TABLE - 1

SL No	Details	For 10mm	
		Test Results	Min Req as per IS 1786-2008
01	Observed diameter of bar	10.0mm	10.0mm
02	Observed Wt/m Length Kg/m	0.621	0.567
03	Proof stress/Yield stress, f_y , N/mm^2	552.0	500.0
04	Bend/ Re bend Test	Ok	---
05	Percentage of Elongation, %	21.00	12.00
06	Ultimate Tensile Strength N/mm^2	628.0	545.0

*As furnished by Client.

The Results relate only to the items tested.

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BUB/CTE/2015-16/

DATE: 21-08-2015

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (07 days Compressive Strength)

{Project*: Maintenance of Ward and Emergency works in Ward No.11. (Kuvempunagar)}

Ref.: Letter No. Testing/BUB/2015-16, dated 20-08-2015

Sample supplied to lab by: Sri.C.Chethan, Contractor,
Bangalore.

Report required for: Assistant Executive Engineer,
Vidyaranya Sub-Division.
BBMP, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M₂₀

TABLE 1.1 :

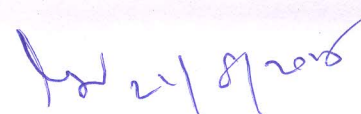
Sl No	Location/ Identification *	Date of Casting*	Date of Testing	Age in Days	C/S Area in Mm ²	Maximum Load in K.N	Compressive Strength (N/ mm ²)	Avg. Value
1	001	13-08-15	20-08-15	07	22500	410	18.22	18.44
	002	"	"	"	"	405	18.00	
	003	"	"	"	"	415	18.44	

* As furnished by Client.

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